MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8

BRGATS

Premeasurements:

M. A. R. 57 (Rule 116)
Measurement Book

SBR- 197/16-17,
No. B dt- 15/11/16

Serial No. First and final bill:

Name of Work Providing concrete rd From in Amruthahalli to S E colony in 8th and 9th Crosses in Ward no.07, (Byatarayanapura) in Kodigehalli Sub division. Date:

263669

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Item	Job code |Indent No:	007-15-000051.					
	A.S.No:-	BBMP|CE|YNK|PR|132|14-15, dt: 11-02-15					
	T.S.No:-	BBMP|SE|BTP|PR|354|14-15, dt: 11-02-15					
	Agr. No:-	NO.EE|BTP|BBMP|E-PMT/184|15-16, dt:19-01-16.					
	Workorder No:-	NO.EE|BTP|BBMP|E-PMT/184|15-16, dt.19-01-16.					
	Date of commencement:-	28-09-16					
	Date of recording:-	15-11-16.					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 01:- Premeasurements recorded on: 30-09-16						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications:						
	Main road	01	15.00	4.50	0.20 =	13.50	
	[colony last road]	01	8.00	4.70	0.20 =	7.52	
		01	9.00	6.10	0.20 =	10.98	
		01	15.00	4.50	0.20 =	13.50	
		01	15.00	4.60	0.20 =	13.80	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, of
1	2
	Qty Upto

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
on: 30-09-16			
al means in ordinary soil			
ow upto 2m and an average			
levelled and sides neatly			
levelled neatly after			
specifications:			
4.50	0.20 = 13.50		
4.70	0.20 = 7.52		
6.10	0.20 = 10.98		
4.50	0.20 = 13.50		
4.60	0.20 = 13.80		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263670

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	15.00	4.70	0.20	= 14.10	
		01	15.00	4.40	0.20	= 13.20	
		01	4.00	4.90	0.20	= 3.92	
		01	24.00	4.80	0.20	= 23.04	
						113.56 cum	
	Qty ltd to	113.16 cum					
				Partly. N.D AE (WT)			

NT BOOK

mensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
or	foundation		footings, bases	
uding	cost of		all materials	
tion:				
	0.60	-	= 4.80	
	0.23	-	= 2.76	
	0.23	-	= 0.83	
			8.39 Sqm:	
on: 14-10-16				
ent concrete using 20mm and				
mix concrete for Rcc works Laid is				
pacted including vibrating				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....263674
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	curing etc., including smooth finish in cm 1:3, with all lead and lift etc, complete:						
	Culverti-	01	8.00	1.80	0.23	= 3.31 cum.	
						Multiplied N.D AE(CE)	
	Item No 13:- Premeasurements recorded on:- 14-10-16						
	Providing T.M.T steel reinforcement for Rcc work including, straightening, cutting, bending, hooking, placing in position, lapping & or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design:						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	16mm ϕ cranked bar:-						
	L=8m @0.15m c/c.	$=\frac{8}{0.15}$	= 53	x 1.25	x 1.75 =	115.93	
		@1.58 kg/mtr			=	183.17 →(i)	
	16mm ϕ Uncranked bar.-	= 52	x 1.75	= 91			
		@1.58 kg/mtr			=	143.78 →(ii)	
	12mm dia = $\frac{1.75}{0.18}$ = 10	= 10	x 2.0	x 10	x 7.95 =	1590.00	
		@ 0.62 kg/mtr			=	985.8 →(iii)	
					=	1.31 tonne	
	Qty Ltd to	0.59	tonne.				
		Multd. N.D AE(WT)					

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item.No.14:- Remeasurement	
	Providing ruled	
	mortar 1:3, 20mm deep, aft	
	including cost of materials	

15/11/16

[illegible] engineering company
[illegible]
[illegible] - 560092

MENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
53x1.25x1.75 =			115.93	
2 kg/mtr =			183.17 →(i)	
.75 =			91	
kg/mtr =			143.78 →(ii)	
.0x10x7.95 =			1590.00	
kg/mtr =			985.8 →(iii)	
=			1.31 tonne	
0.59 tonne.				

Mahantesh N.D
AE(WT)

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263675

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No. 14:- Remeasurements recorded on: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.						
		04	8.00	-	0.60	19.20	

Mahantesh N.D
AE(WT)

15/11/16

MEASUREMENT BOOK

Main bill:-

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.3m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications:						
	Qty vide page No. 263~~4~~/263670 →					113.16 cum	
	At the rate of Rs: 90.00 →						10184.60
	Item No.02:- Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller, including filling in depression occurring						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	during rolling includi
	Qty vide page
	At the rate of R
	Item No.04:-
	Providing and l
	granite jelly of ready
	and well compacted inclu
	Qty vide page No. 2

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
y manual means in ordinary soil				
al throw upto 2m and an average				
face levelled and sides neatly				
be levelled neatly after				
per specifications:				
263670 →			113.16 cum	
→				10184.60
ground with maximum of 6 passes				
g filling in depression occuring				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263676
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	during rolling including cost of all labour, HOM of machinery:						
	Qty vide page No. 2634/263671 →					597.83 Sq.m.	
	At the rate of Rs: 4.0 →						2391.32
	Item No.04:-						
	Providing and laying cement concrete using 40mm and down size granite Jelly of ready mix concrete for RCC works laid in 15cms thick layers and well compacted including vibrating curing etc.,						
	Qty vide page No. 2634/263671 →					89.47 cum	

ENT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
				19032.50
oxtement for RCC work				
ending, hooking, placing in				
wherever required, tying				
, cost of materials, labour,				
63674 → 0.59				
→				46020.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

263679

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item. No.14:- Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm deeply including cost of materials, labour, curing complete as per specifications Qty vide page No: 2637 | 263675 → 19.20 sqm At the rate of Rs: 90.00 →						1728.00
	Item. No.05:- Providing and laying cement concrete using 20mm and ↓ size						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	granite jelly of ready mix concrete for Rec works laid in 150 thick layers and well compacted including, vibrating curing including smooth finish in CM 1:3 with all lead and lift:						
	Main Road	01	15.00	4.50	0.10	= 6.75	
	[Dast road colony]	01	08.00	4.70	0.10	= 3.76	
		01	9.00	6.10	0.10	= 5.49	
		01	15.00	4.50	0.10	= 6.75	
		01	15.00	4.60	0.10	= 6.90	
		01	15.00	4.70	0.10	= 7.05	
		01	15.00	4.40	0.10	= 6.60	
		01	4.00	4.90	0.10	= 1.96	
		01	30.90	4.70	0.10	= 14.52	
						59.79 cum	

C & FC.

29/11

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Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	At the rate o
	Item No 06:-
	Vaccum de-
	compaction with el
	cost of generator,
	with all lead a

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
de	for Rec works laid in 15 cm			
ed	including, vibrating curing			
1:3	with all lead and lift:			
.00	4.50	0.10 =	6.75	
.00	4.70	0.10 =	3.76	
00	6.10	0.10 =	5.49	
00	4.50	0.10 =	6.75	
00	4.60	0.10 =	6.90	
00	4.70	0.10 =	7.05	
00	4.40	0.10 =	6.60	
00	4.90	0.10 =	1.96	
90	4.70	0.10 =	14.52	
			59.79 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263680

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	At the rate of Rs: 5700.00 →						340803.00
	Item No.06:-						
	Vaccum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HSM of machinery, screed vibratory, power floater with all lead and lift.						
		01	15.00	4.50	–	= 67.50	
		01	8.00	4.70	–	= 37.60	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	9.00	6.1	-	= 54.90	
		01	15.00	4.5	-	= 67.50	
		01	15.00	4.6	-	= 69.00	
		01	15.00	4.7	-	= 70.50	
		01	15.00	4.4	-	= 66.00	
		01	4.00	4.9	-	= 19.60	
		01	30.90	4.7	-	= 145.23	
						597.83 Sqm	53805
	At the rate of Rs: 90.00 →						53811.00
	Item. No. 07:- Providing groove cutting for width of 5mm to 10mm &						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	depth 80mm - 100mm of machinery, including hot bitumen fillars and of all materials:	

ENT BOOK

Dimensions			Contents	Reference to last Measurement
gth	Breadth 5	Depth 6	7	8
00	6.1	-	= 54.90	
00	4.5	-	= 67.50	
00	4.6	-	= 69.00	
00	4.7	-	= 70.50	
00	4.4	-	= 66.00	
0	4.9	-	= 19.60	
0	4.7	-	= 145.23	
			597.83 Sqm	53805
→				53811.00
g	for width		of 5mm	to 10mm &r

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263681

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	depth 80mm- 100mm including cost of cutting, generator and HDM of machinery, including cleaning of groove and providing sand and hot bitumen fillars and filler metal etc, including cost of conveyance of all materials:						
		02	4.5	-	-	= 9.00	
		01	4.7	-	-	= 4.70	
		01	6.1	-	-	= 6.10	
		02	4.5	-	-	= 9.00	
		02	4.6	-	-	= 9.20.	
		02	4.7	-	-	= 9.40	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	4.4	-	-	= 4.40	
		01	4.9	-	-	= 4.90	
		04	4.7	-	-	= 18.80	
						75.50 mts	
	At the rate of Rs:		110.00 →				8305.00
	Item No. 15:- Lead for disposal of debris:-						
	Qty vide Item No. 01 →		113.16 cum				
	At the rate of Rs:		76 →				8600.16
						GRAND TOTAL:-	10,05304.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
	-	-	= 4.40	
	-	-	= 4.90	
	-	-	= 18.80	
			75.50 mts	
-00 →				8305.00
ks:-				
→			113.16 cum	
→				
				8600.16
			GRAND TOTAL:-	10,05304.00

Asst M.N.D
15/11/16

1005268
1005268

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

263682

Name of Contractor of nature of Agency .....

Date of commencement of work ..... towards rachenahalli lake:

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	colony [1 st road]						
	L=96 m x (4.5) Avg						
	SWD						
	→ towards Amruthahalli lake:						
	→ Amruthahalli main road						

INDEX

CC-Road

Asst M.N.D
AE(W7)

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2 Royalty :	3 coarse Agg	4	5 fine Agr	6	7 Cement	8
Sl No.	Details: Qty / cum	co-eff	Qty	co eff	Qty	-	-
01	40mm↓ = 102.63 cum	0.96	98.52	0.48	49.26	-	-
02	20mm↓ = 63.18 cum	0.90	56.86	0.45	28.43		
	TOTAL:-		155.38		77.69		
	ABSTRACT:-						
1)	Coarse Aggregate: 155.38						
2)	Fine Aggregate: 77.69						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	CERTIFICATE:-
	1) Certified that the
	2) Certified that debi
	Mulpl. N.D AE(W-7)

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
Aggr	Fine Aggr		Cement	
ty	Coeff	Qty	-	-
·52	0·48	49·26	-	-
·86	0·45	28·43		
·38		77·69		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

263683

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	CERTIFICATE: -						
	1) Certified that the work done by the contractor is satisfactory:						
	2) certified that debris has been removed from the workspot:						
	Asst Ly. N.D AE(W7)						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೋಡಿಗೆಹಳ್ಳಿ ಪ್ರಿಂಟ್ ಸಬ್‌ಡಿವಿಷನ್
ಯಲಹಂಕ ವಲಯ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು - 560092

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total R: 10,05,268-00	
						ST. 10053-00	
						VAT- 40211-00	
						Cess- 10053-00	
						CSF- 1005-00	
						IR- 15079-00	
						Fine. 2000-00	
						Adj 78401-00	
						Chq: 926867-	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 1005268-00

ಗಳಿಕೆ ಹಾಗು ಮಾರಾಟ ತೆರಿಗೆ ಹೊರತು ರೂ 78401-00

ಕೊಡಬೇಕಾದ ಮೊಬಲಗು ರೂ 926867-00

ಚೆಕ್ ಮುಖಾಂತರ ಬಿಡುಗಡೆ

30/11

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ....

Date of commencement of work .....

Date	Full description, etc, of work
1	2